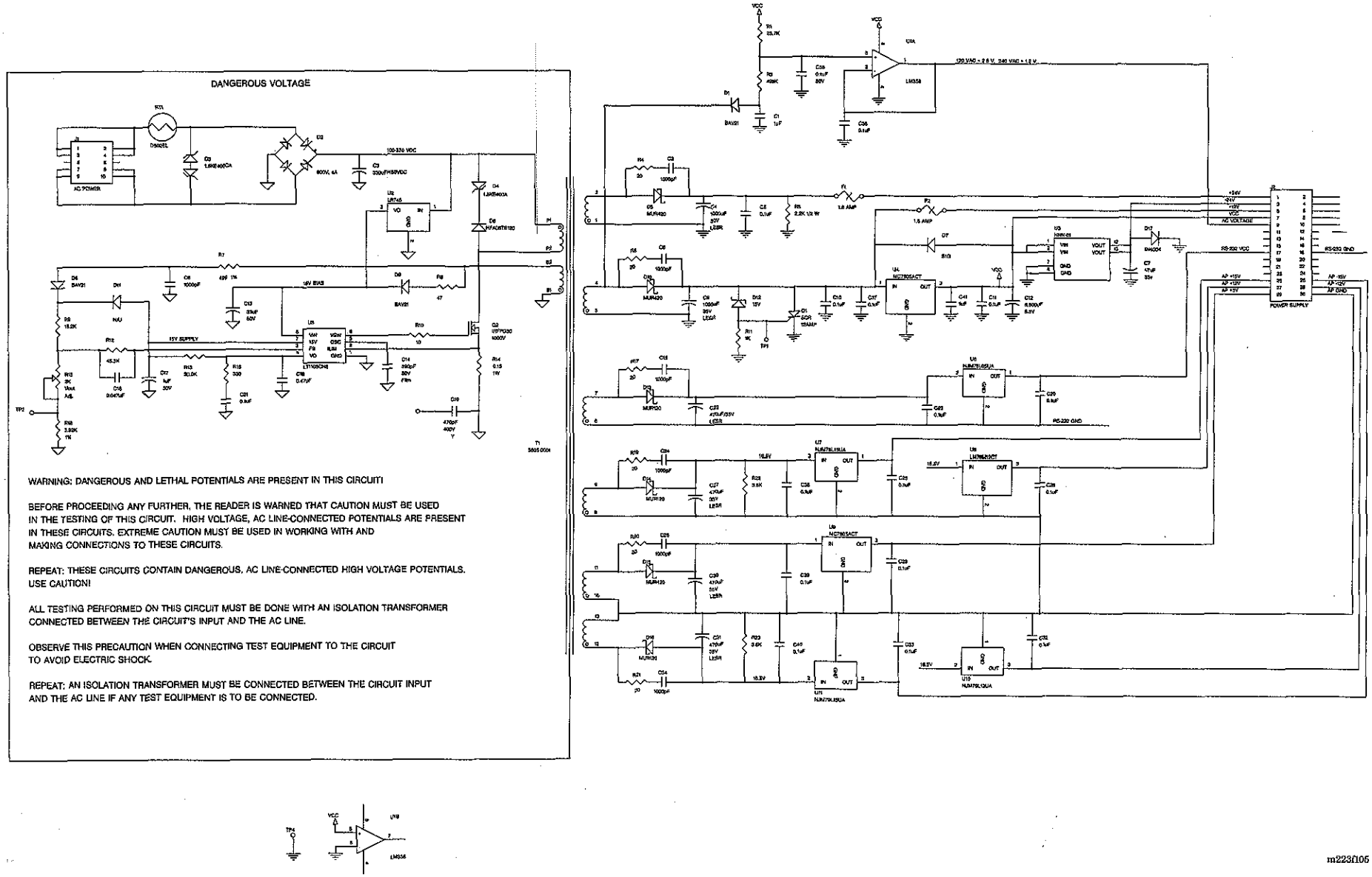
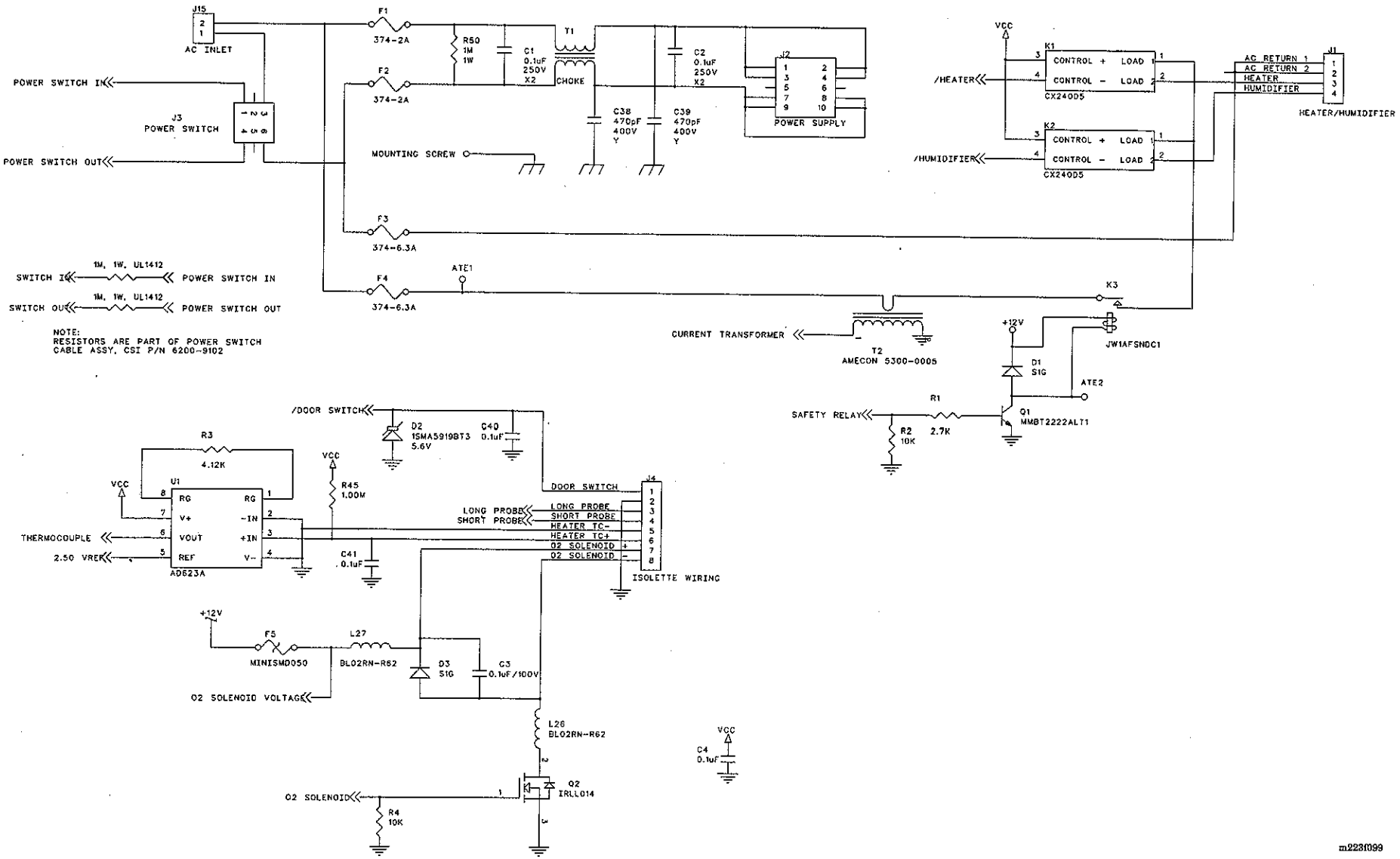
Controller Power Supply Schematic Diagram


DANGEROUS VOLTAGE
WARNING: DANGEROUS AND LETHAL POTENTIALS ARE PRESENT IN THIS CIRCUIT!
BEFORE PROCEEDING ANY FURTHER, THE READER IS WARNED THAT CAUTION MUST BE USED IN THE TESTING OF THIS CIRCUIT. HIGH VOLTAGE, AC LINE-CONNECTED POTENTIALS ARE PRESENT IN THESE CIRCUITS. EXTREME CAUTION MUST BE USED IN WORKING WITH AND MAKING CONNECTIONS TO THESE CIRCUITS.
REPEAT: THESE CIRCUITS CONTAIN DANGEROUS, AC LINE-CONNECTED HIGH VOLTAGE POTENTIALS. USE CAUTION!
ALL TESTING PERFORMED ON THIS CIRCUIT MUST BE DONE WITH AN ISOLATION TRANSFORMER CONNECTED BETWEEN THE CIRCUIT'S INPUT AND THE AC LINE.
OBSERVE THIS PRECAUTION WHEN CONNECTING TEST EQUIPMENT TO THE CIRCUIT TO AVOID ELECTRIC SHOCK.
REPEAT: AN ISOLATION TRANSFORMER MUST BE CONNECTED BETWEEN THE CIRCUIT INPUT AND THE AC LINE IF ANY TEST EQUIPMENT IS TO BE CONNECTED.
AC POWER
15V SUPPLY
POWER SUPPLY
AC VOLTAGE
RS-232 GND
RS-232 VCC

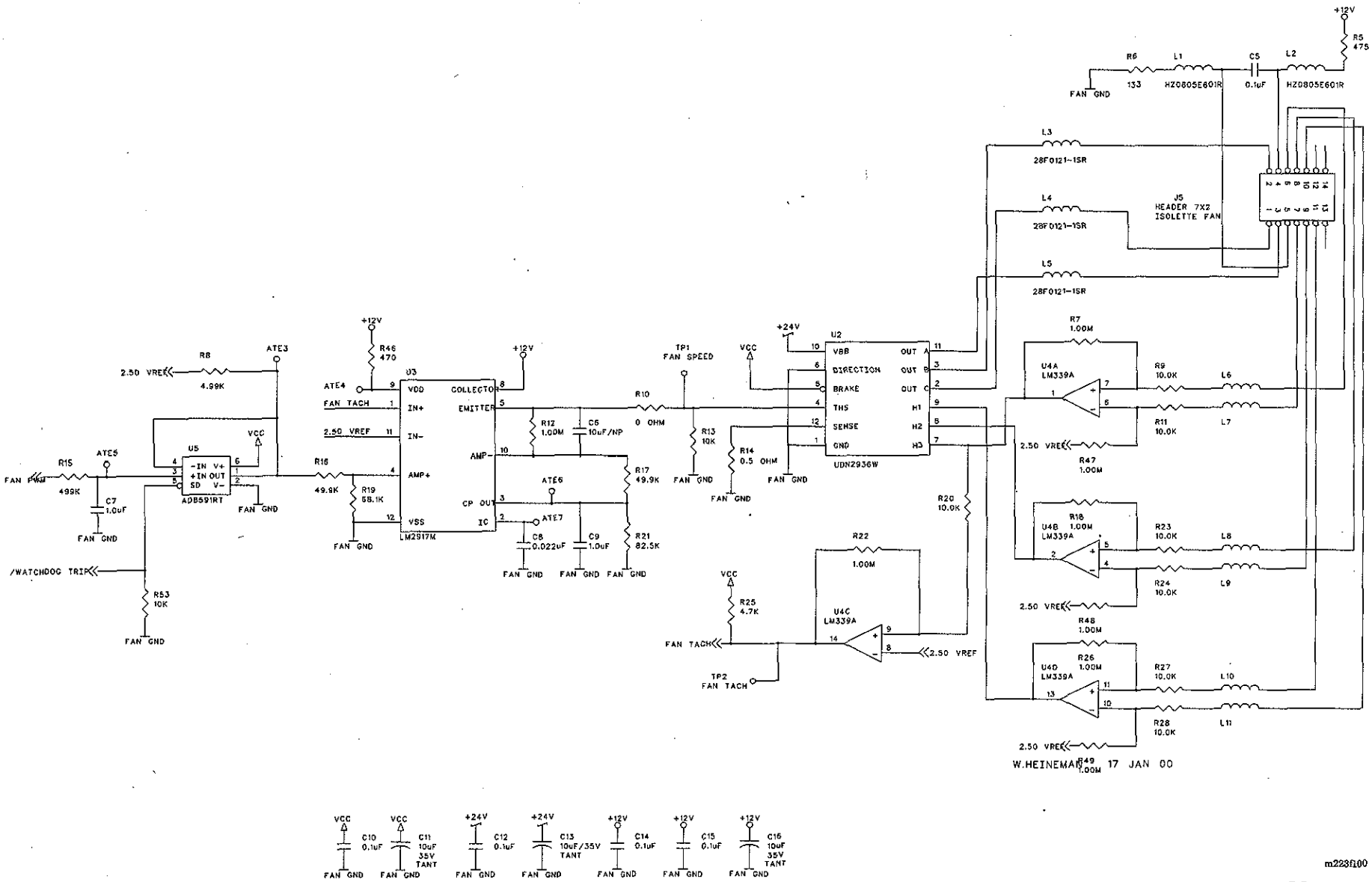
Interface P.C. Board Schematic Diagram (Sheet 1 of 5)



m223f099

FO 3-2.1

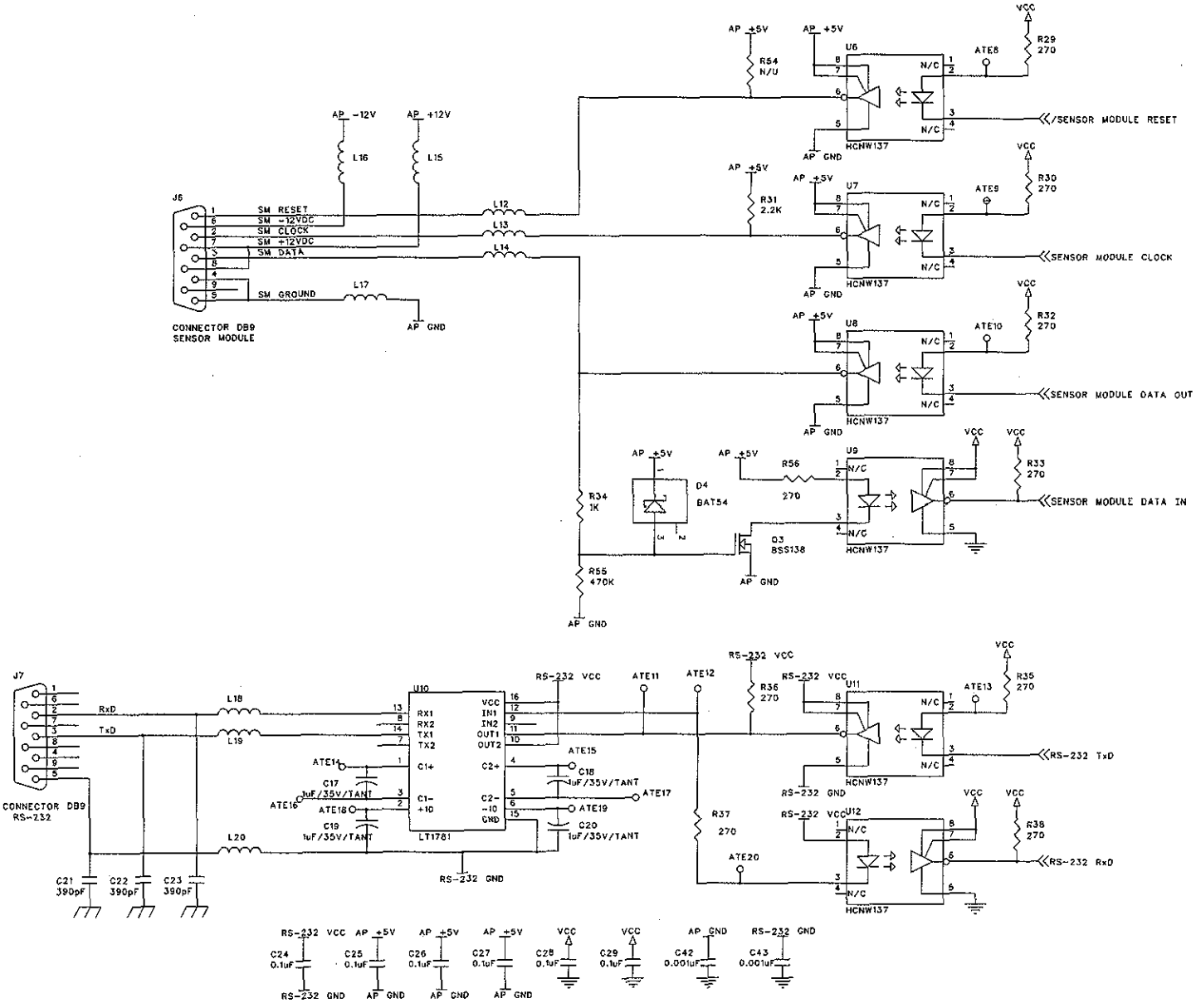
Interface P.C. Board Schematic Diagram (Sheet 2 of 5)



m223f100

FO 3-2.2

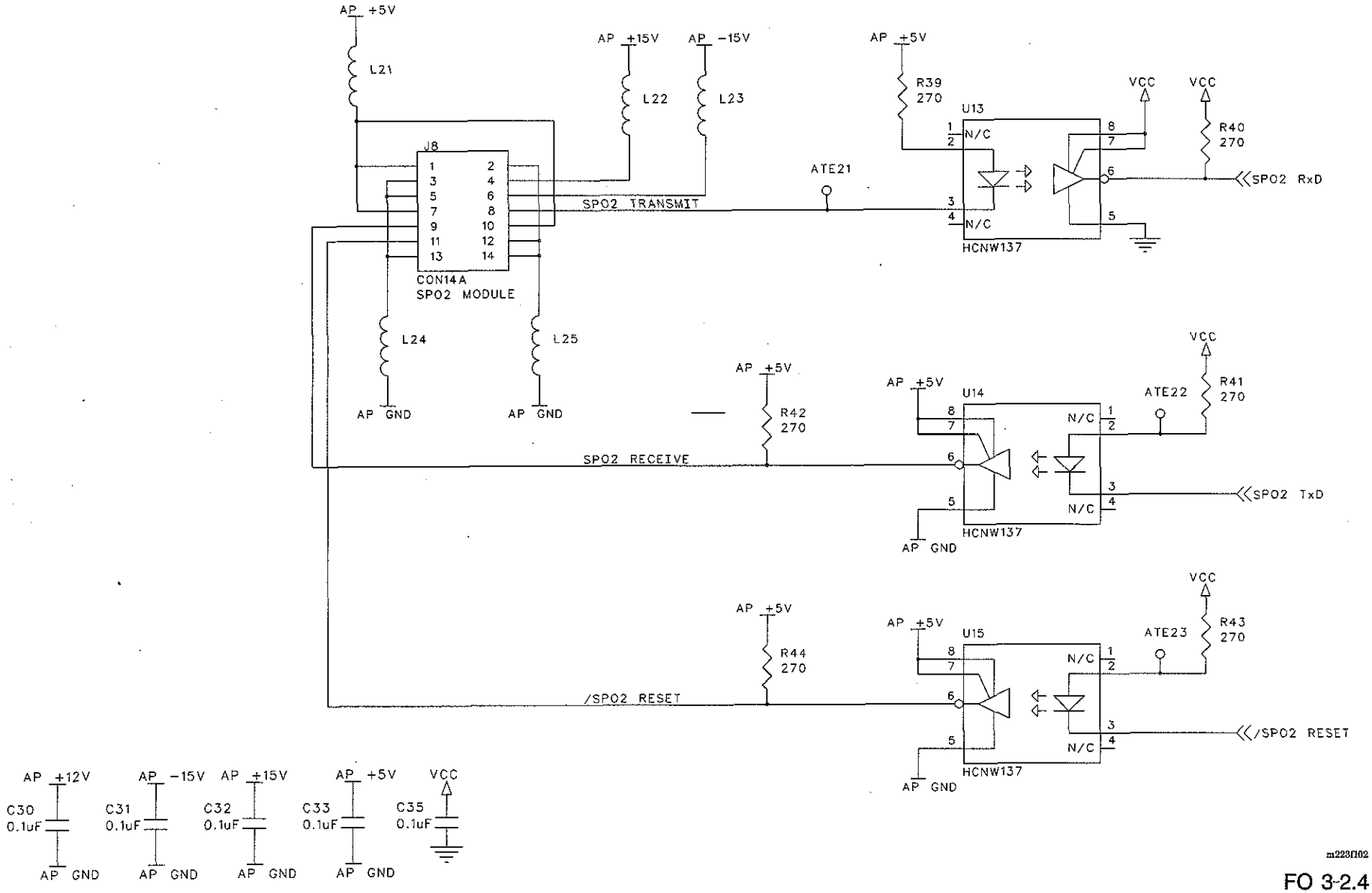
Interface P.C. Board Schematic Diagram (Sheet 3 of 5)



m223f101

FO 3-2.3

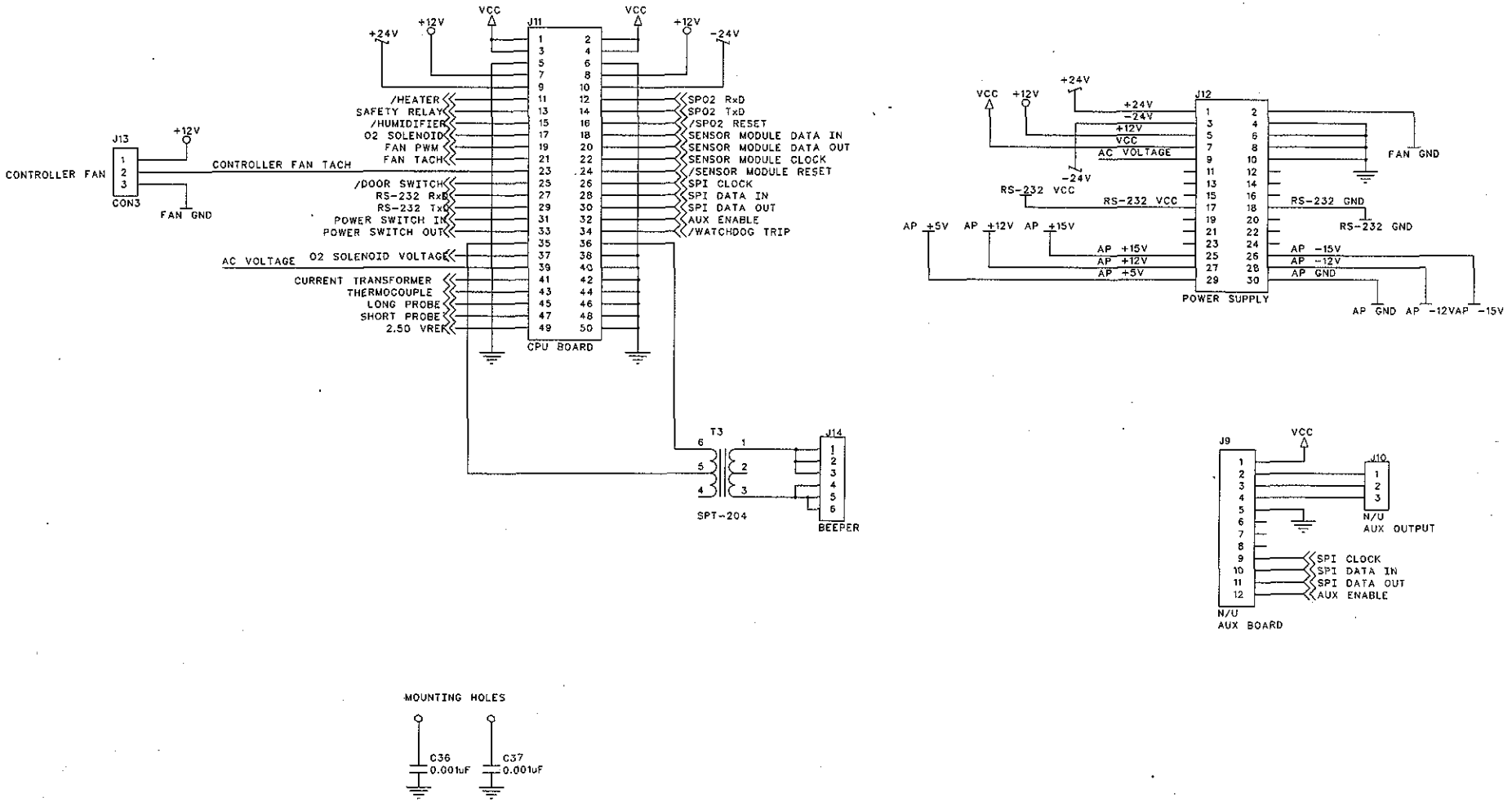
Interface P.C. Board Schematic Diagram (Sheet 4 of 5)



m223f102

FO 3-2.4

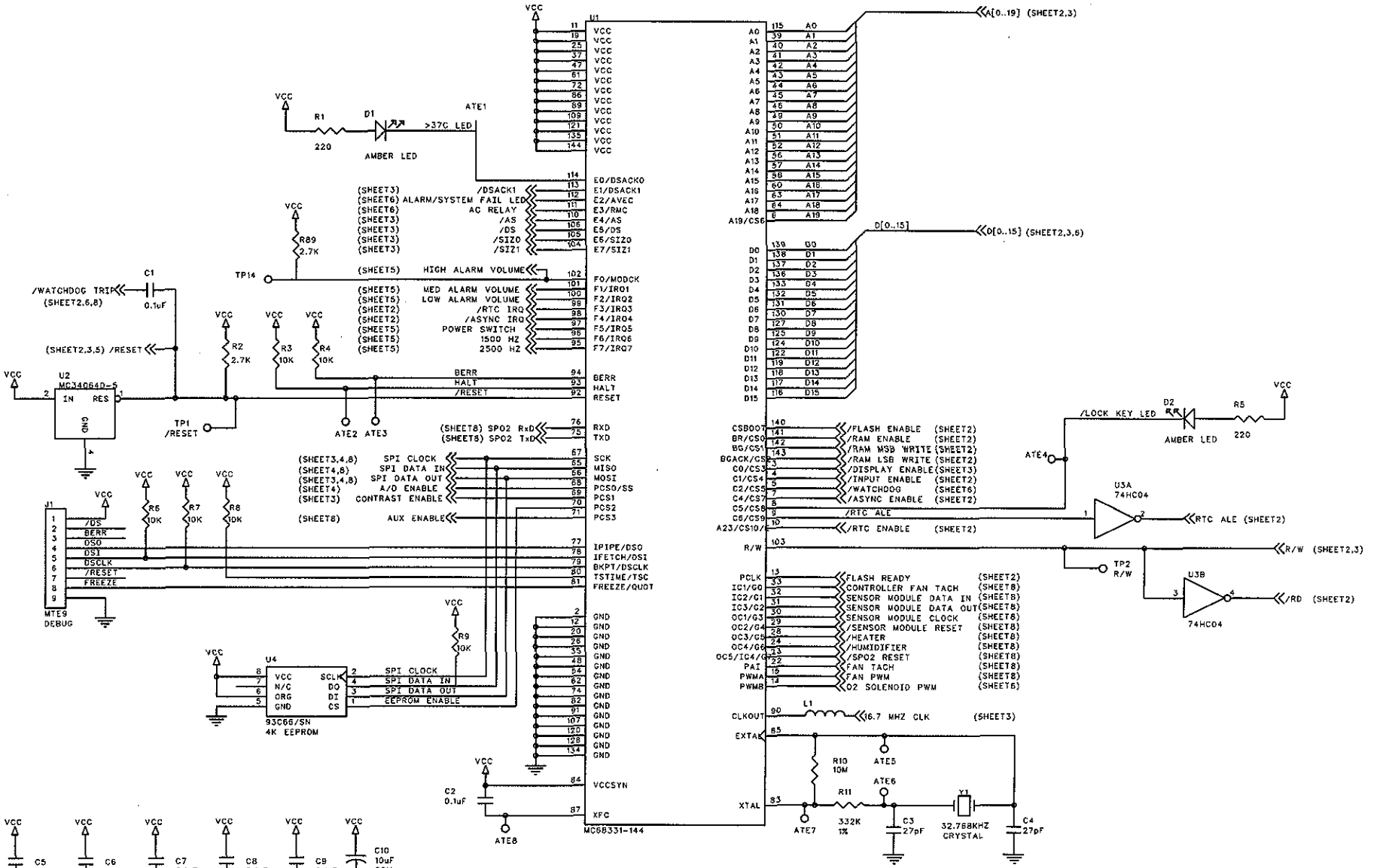
Interface P.C. Board Schematic Diagram (Sheet 5 of 5)



m223f103

FO 3-2.5

Central Processing Unit P.C. Board Schematic Diagram (Sheet 1 of 8)

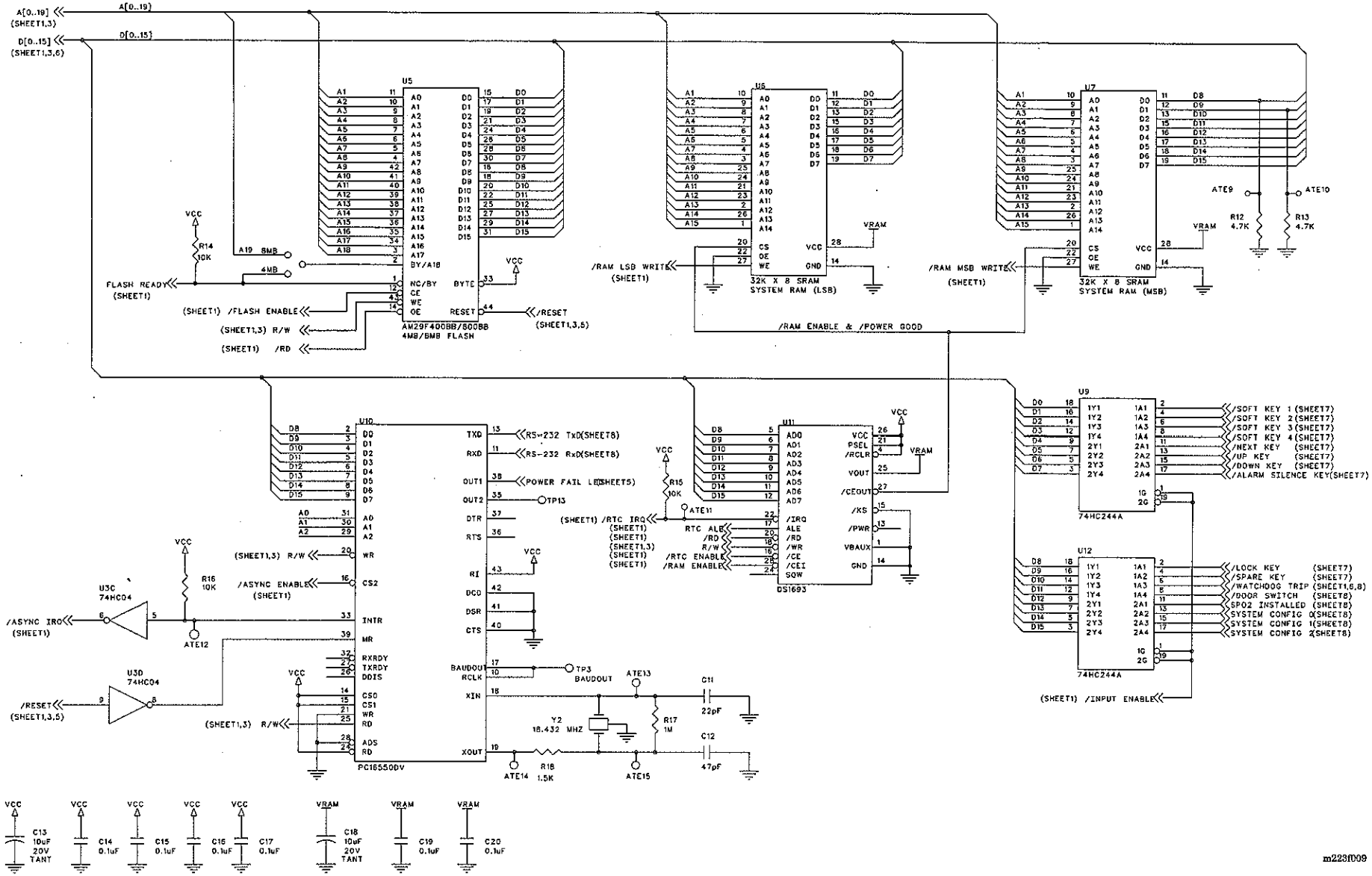


1. Unless otherwise noted, all resistors are 5% tolerance, 1/8 watt.

m2231008

FO 3-3.1

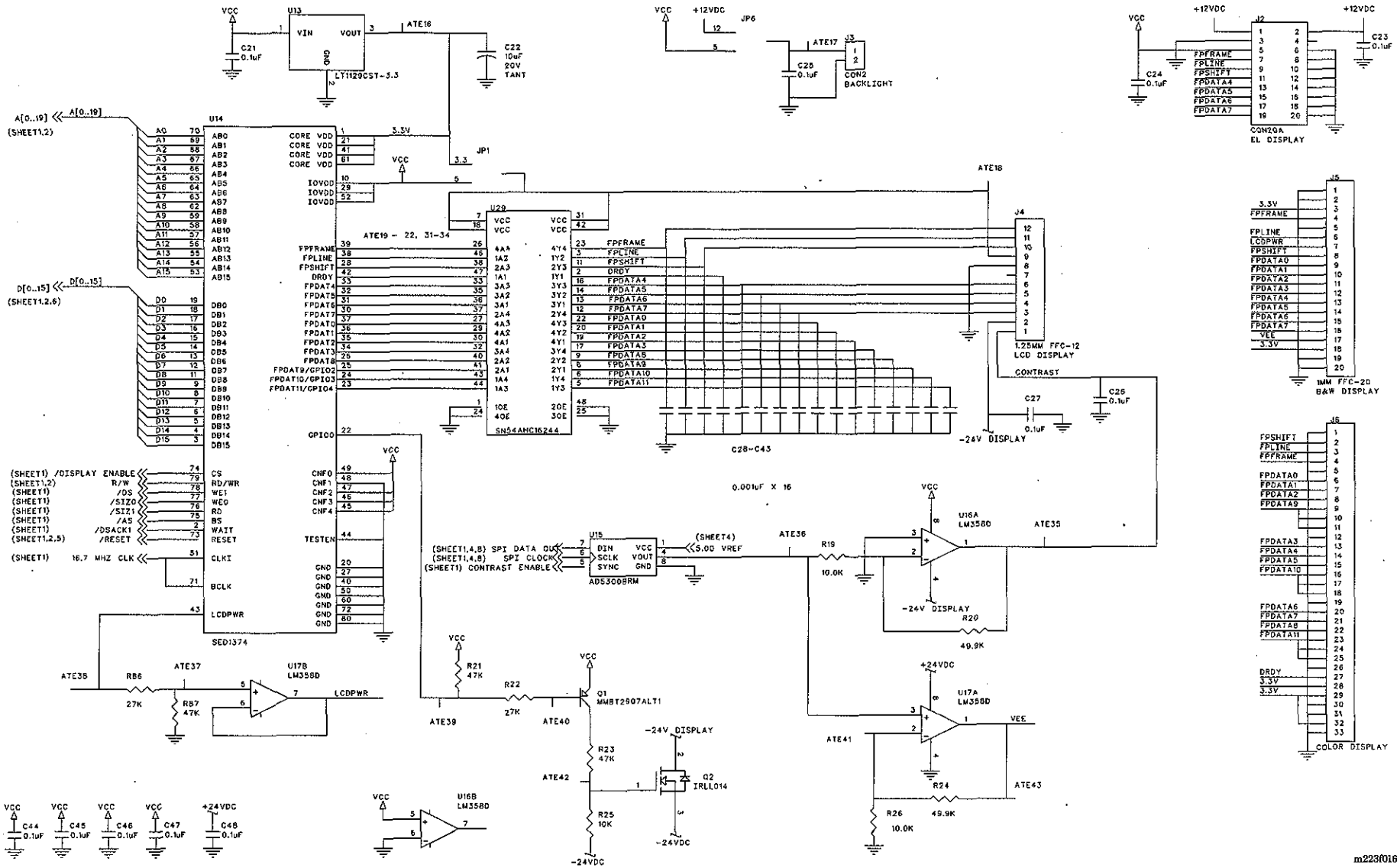
Central Processing Unit P.C. Board Schematic Diagram (Sheet 2 of 8)



m223f009

FO 3-3.2

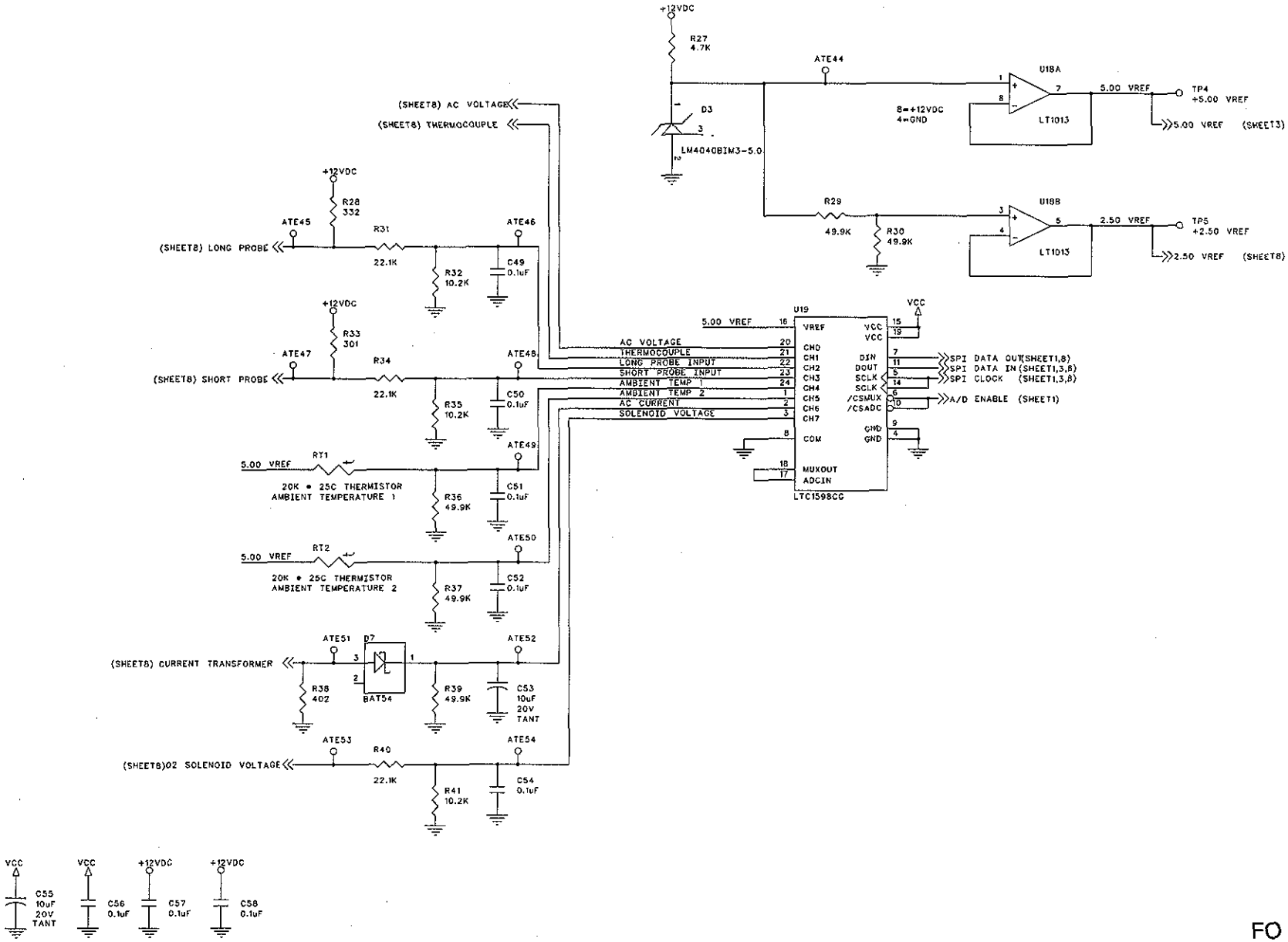
Central Processing Unit P.C. Board Schematic Diagram (Sheet 3 of 8)



m223f016

FO 3-3.3

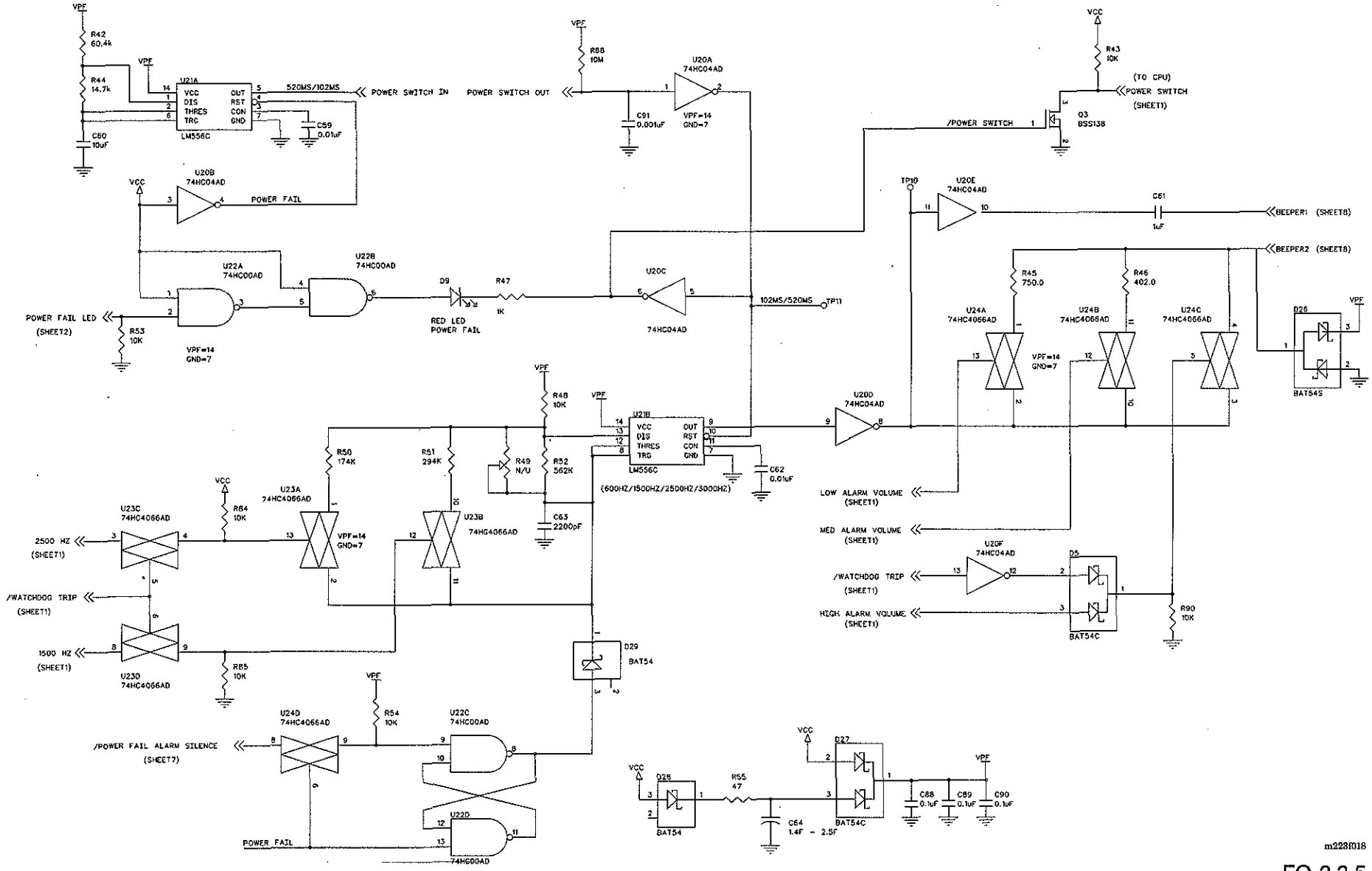
Central Processing Unit P.C. Board Schematic Diagram (Sheet 4 of 8)



m223f017

FO 3-3.4

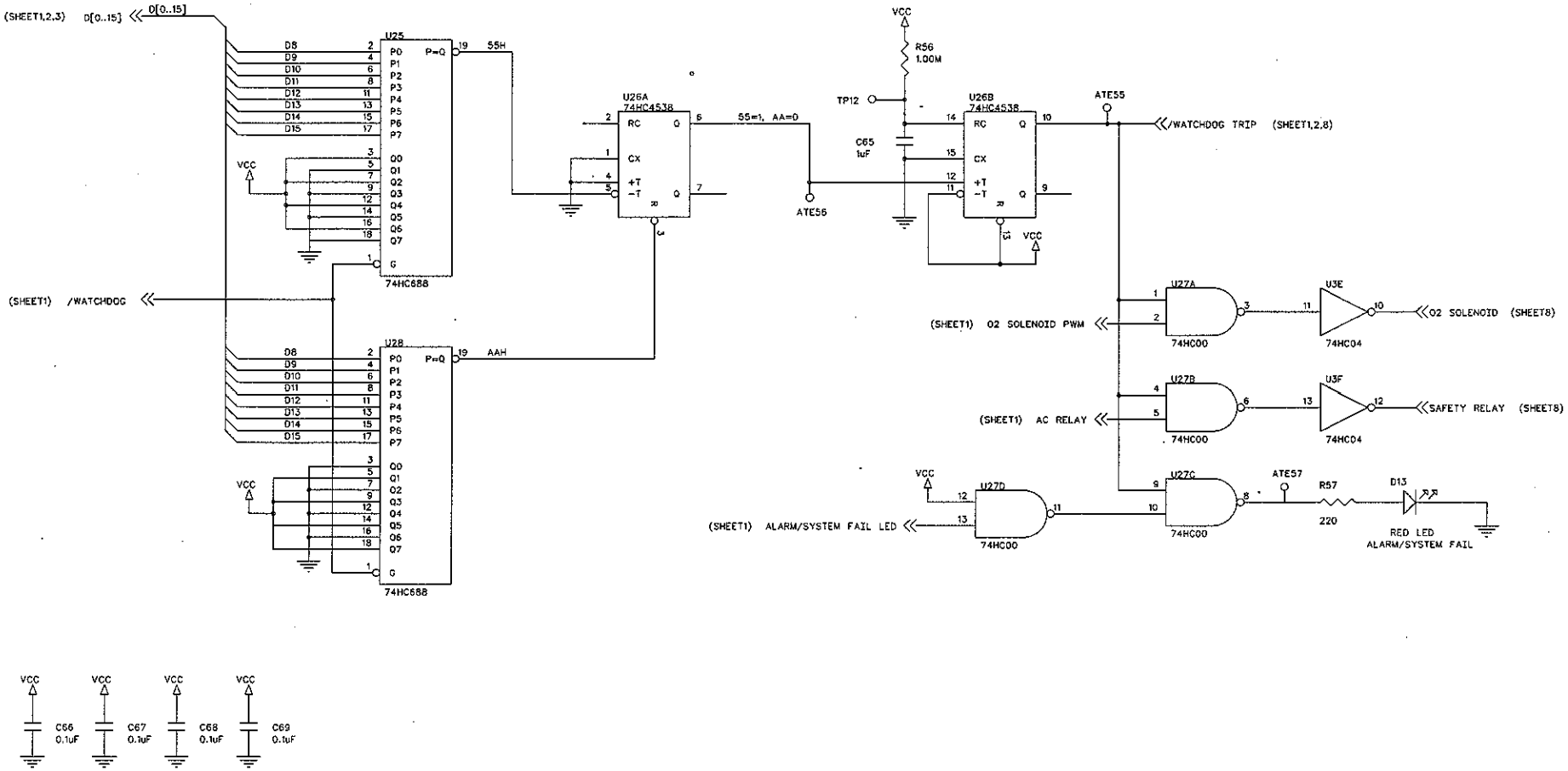
Central Processing Unit P.C. Board Schematic Diagram (Sheet 5 of 8)



m223f018

FO 3-3.5

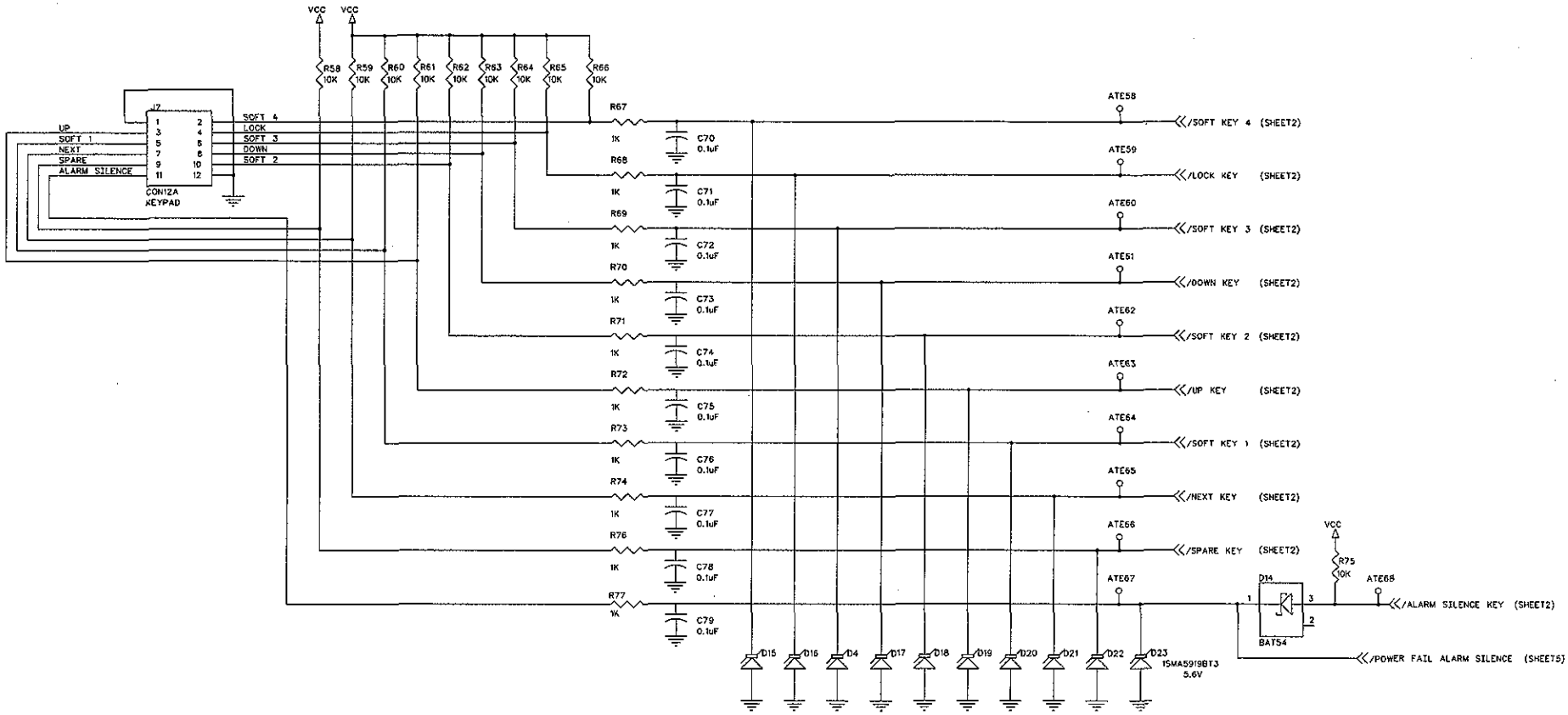
Central Processing Unit P.C. Board Schematic Diagram (Sheet 6 of 8)



m223(019

FO 3-3.6

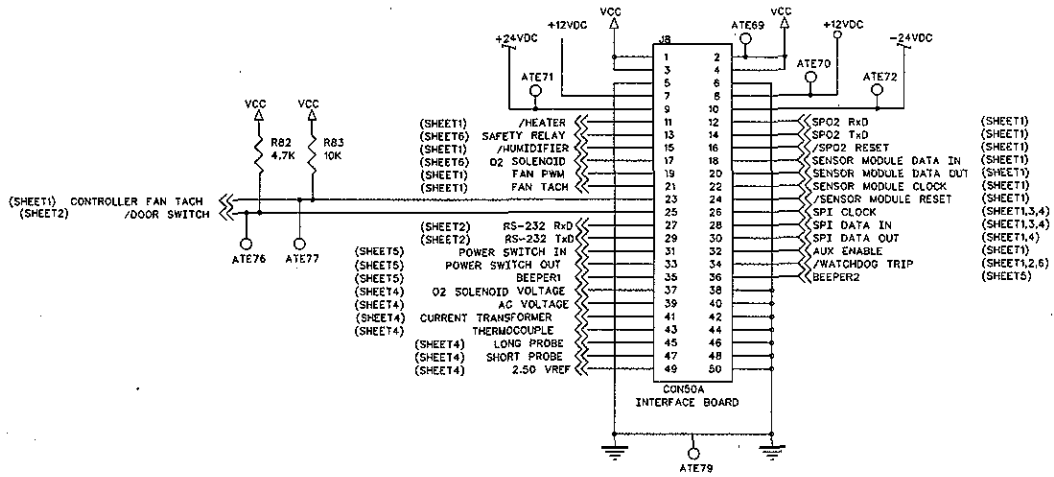
Central Processing Unit P.C. Board Schematic Diagram (Sheet 7 of 8)



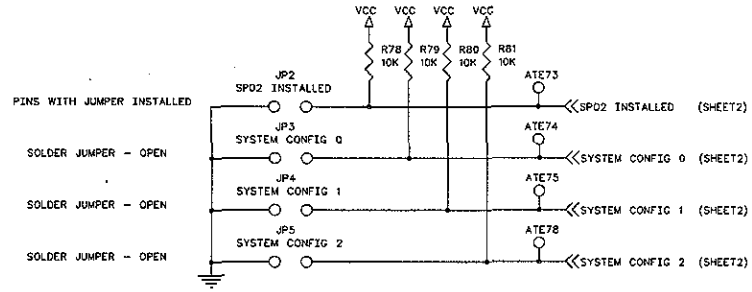
m223f020

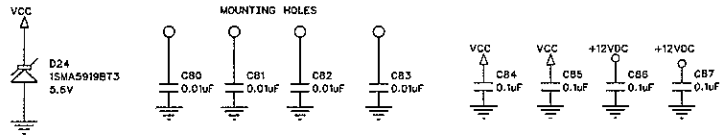
FO 3-3.7

Central Processing Unit P.C. Board Schematic Diagram (Sheet 8 of 8)



NOTE: RIBBON CABLE TO HAVE FERRITE CLAMP INSTALLED NEAR CPU BOARD.

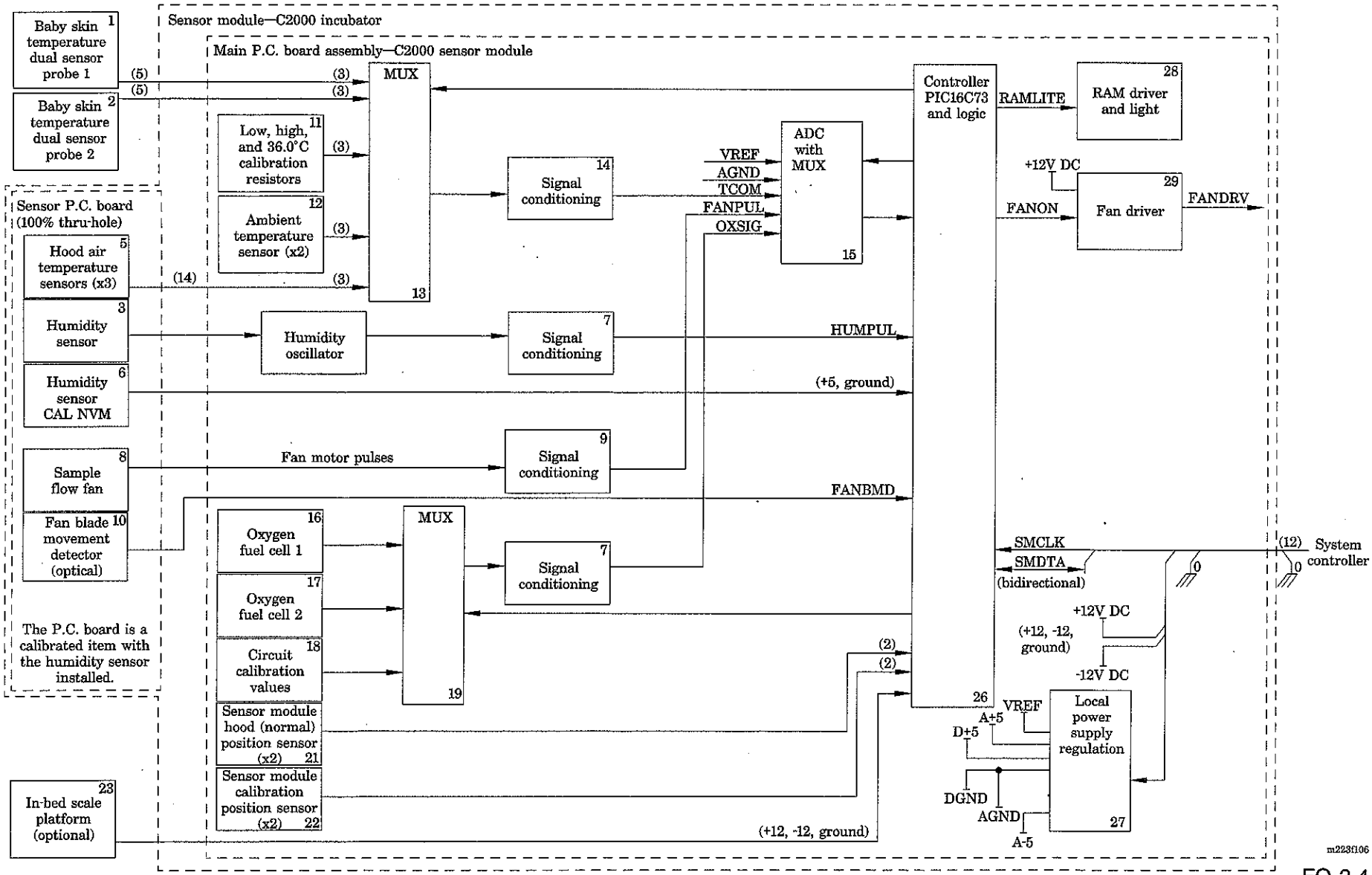




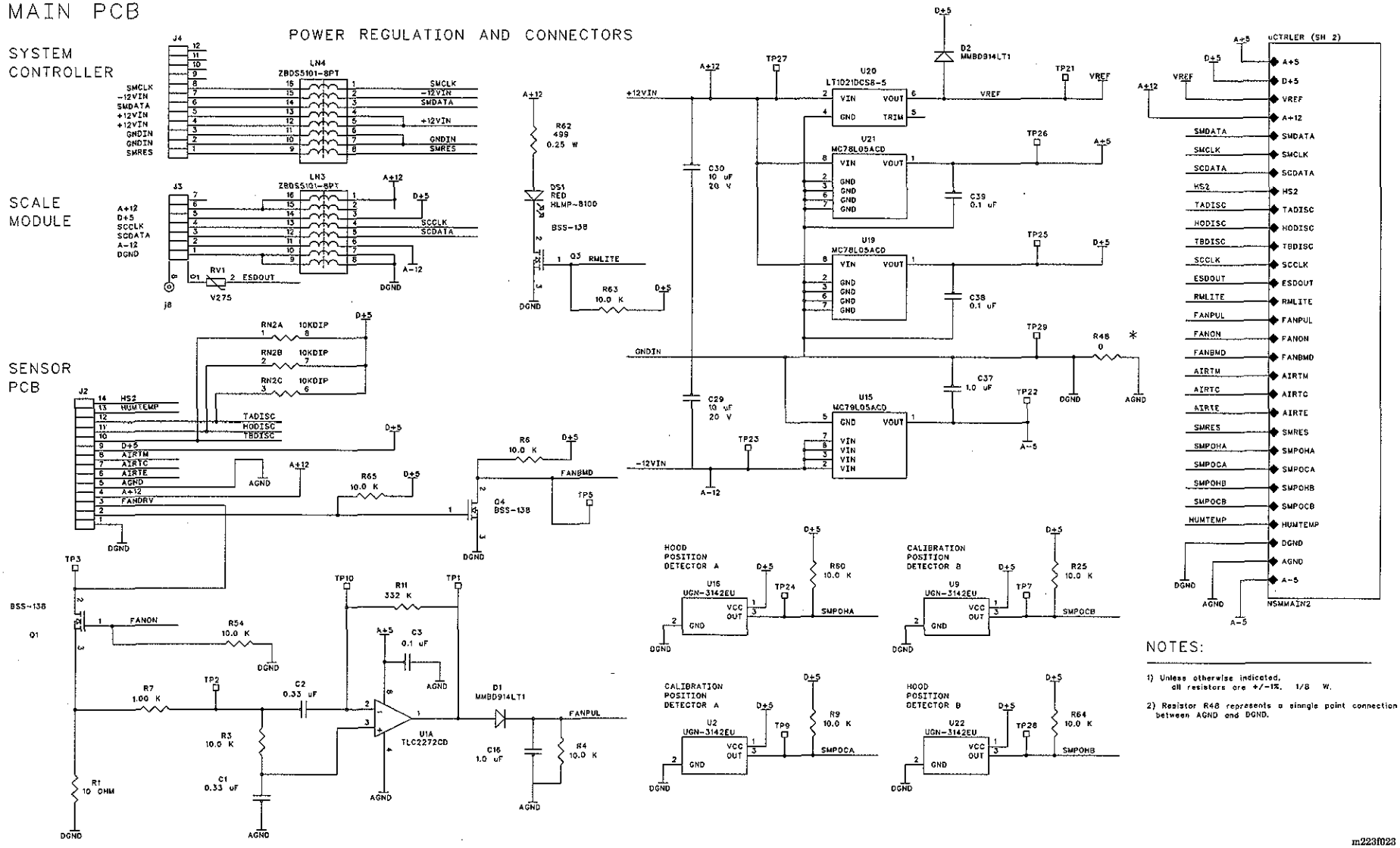
m223f021

FO 3-3.8

Sensor Module Functional Block Diagram



Sensor Module P.C. Board Schematic Diagram (Sheet 1 of 4)



NOTES:

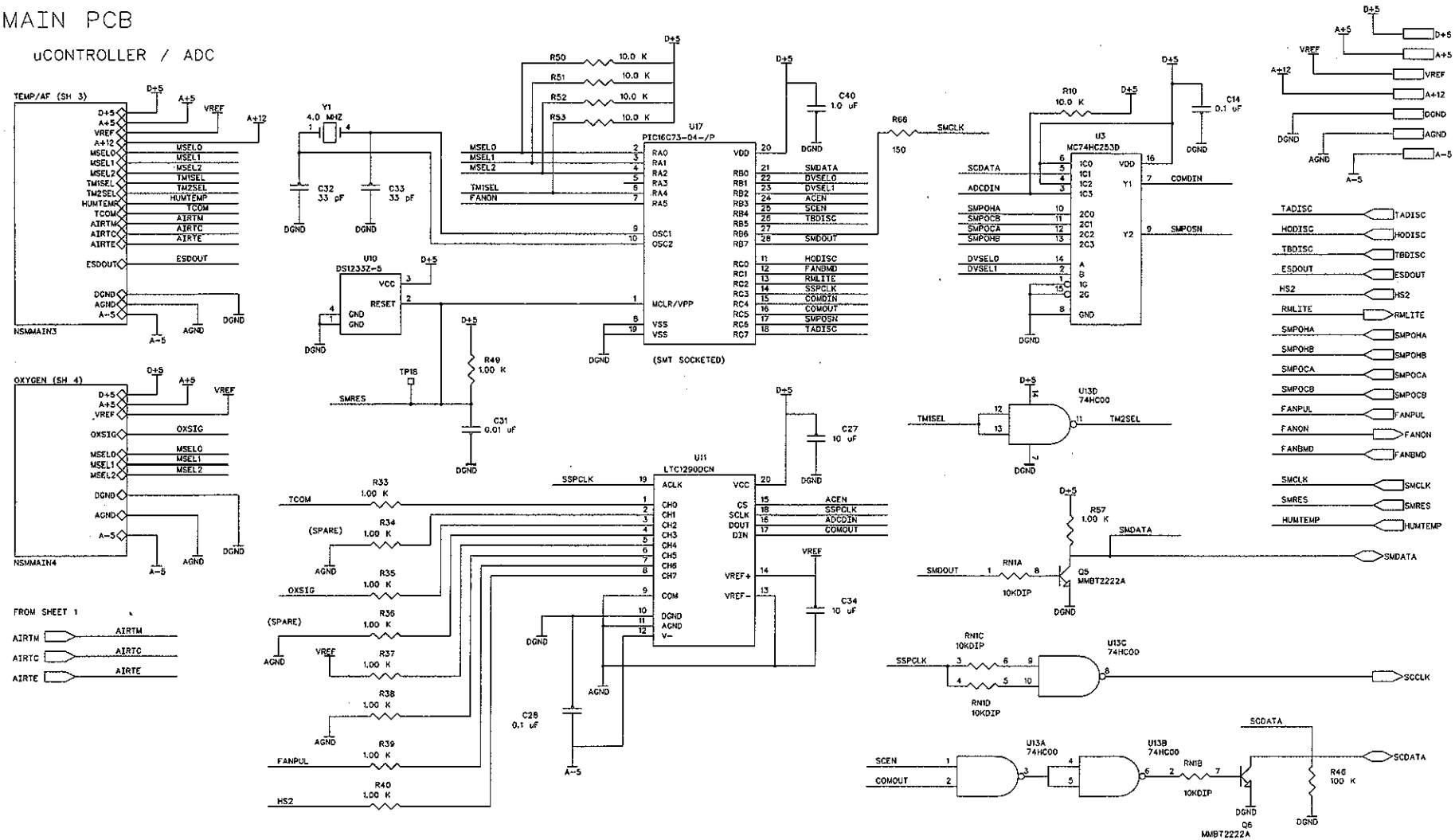
1) Unless otherwise indicated, all resistors are +/-1%. 1/8 W.

2) Resistor R46 represents a single point connection between AGND and DGND.

m223f023

FO 3-5.1

Sensor Module P.C. Board Schematic Diagram (Sheet 2 of 4)



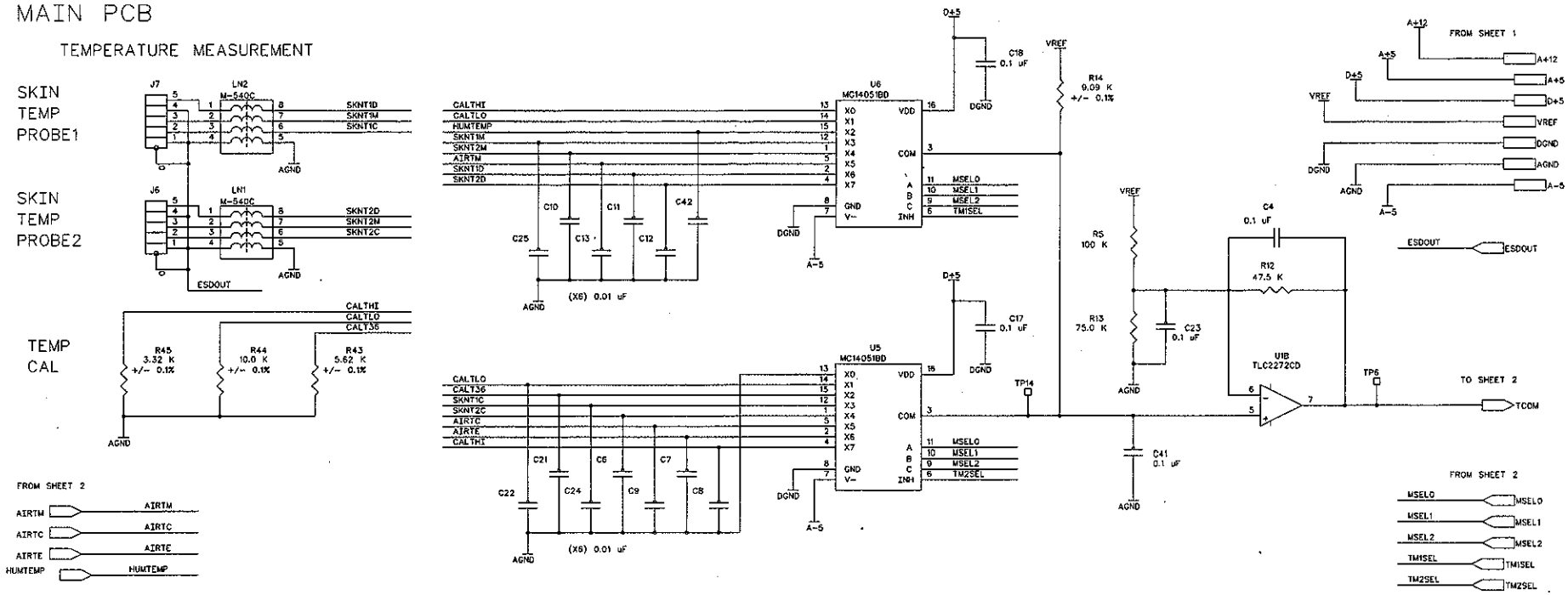
NOTES:

1) Unless otherwise indicated, all resistors are +/- 1%, 1/8W.

m223f024

FO 3-5.2

Sensor Module P.C. Board Schematic Diagram (Sheet 3 of 4)



NOTES:

1) ALL RESISTORS +/- 1%, 1/8 W UNLESS OTHERWISE INDICATED.

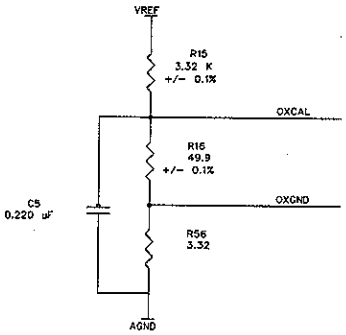
m223f025

FO 3-5.3

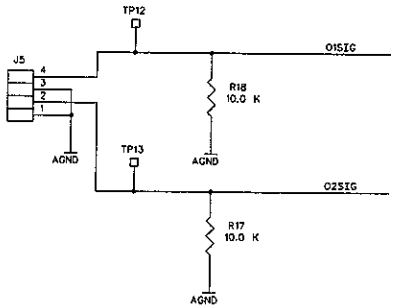
Sensor Module P.C. Board Schematic Diagram (Sheet 4 of 4)

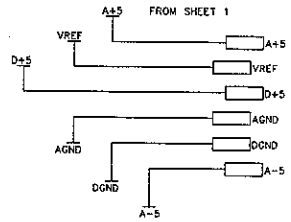
MAIN PCB

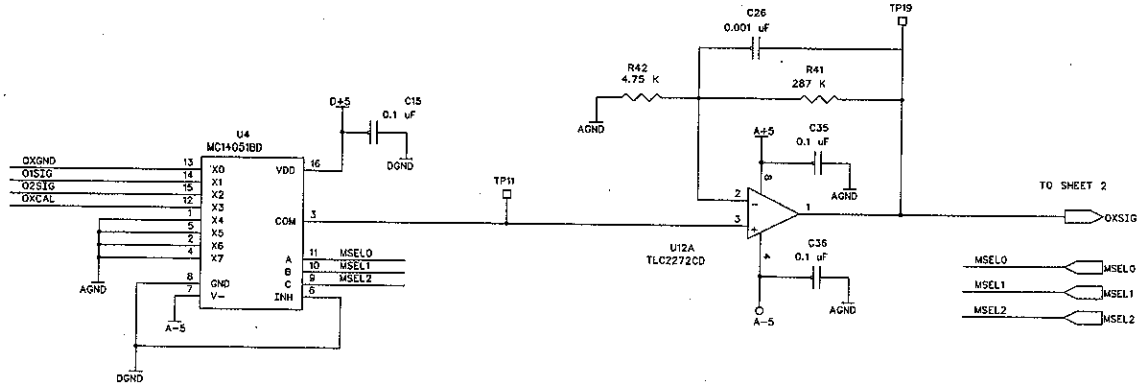
- OXYGEN MEASUREMENT



OXYGEN SENSORS



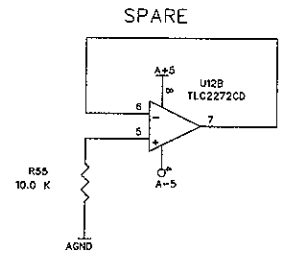




NOTE:

1) Unless otherwise indicated, all resistors are +/- 1%, 1/8W.

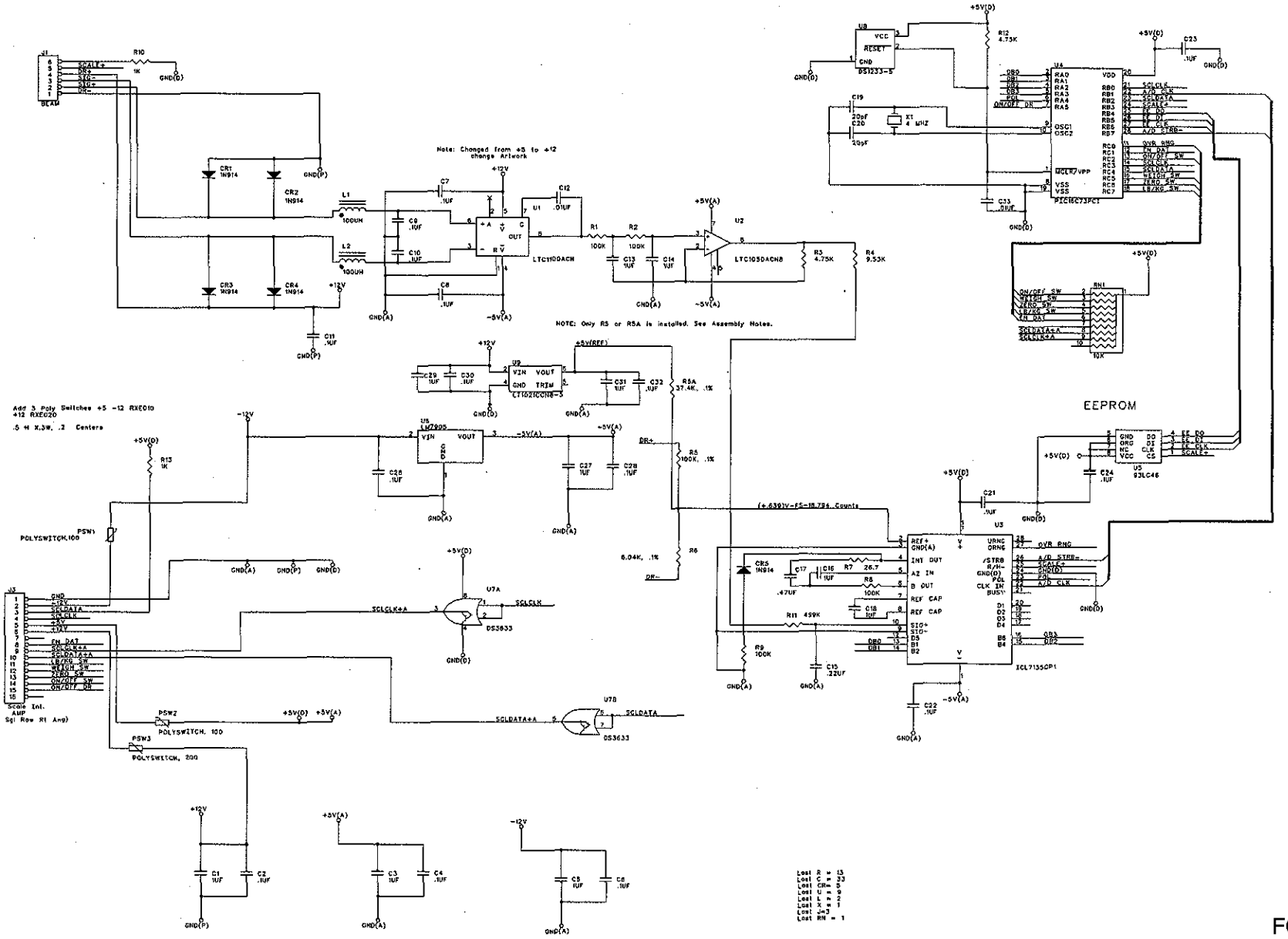
SPARE



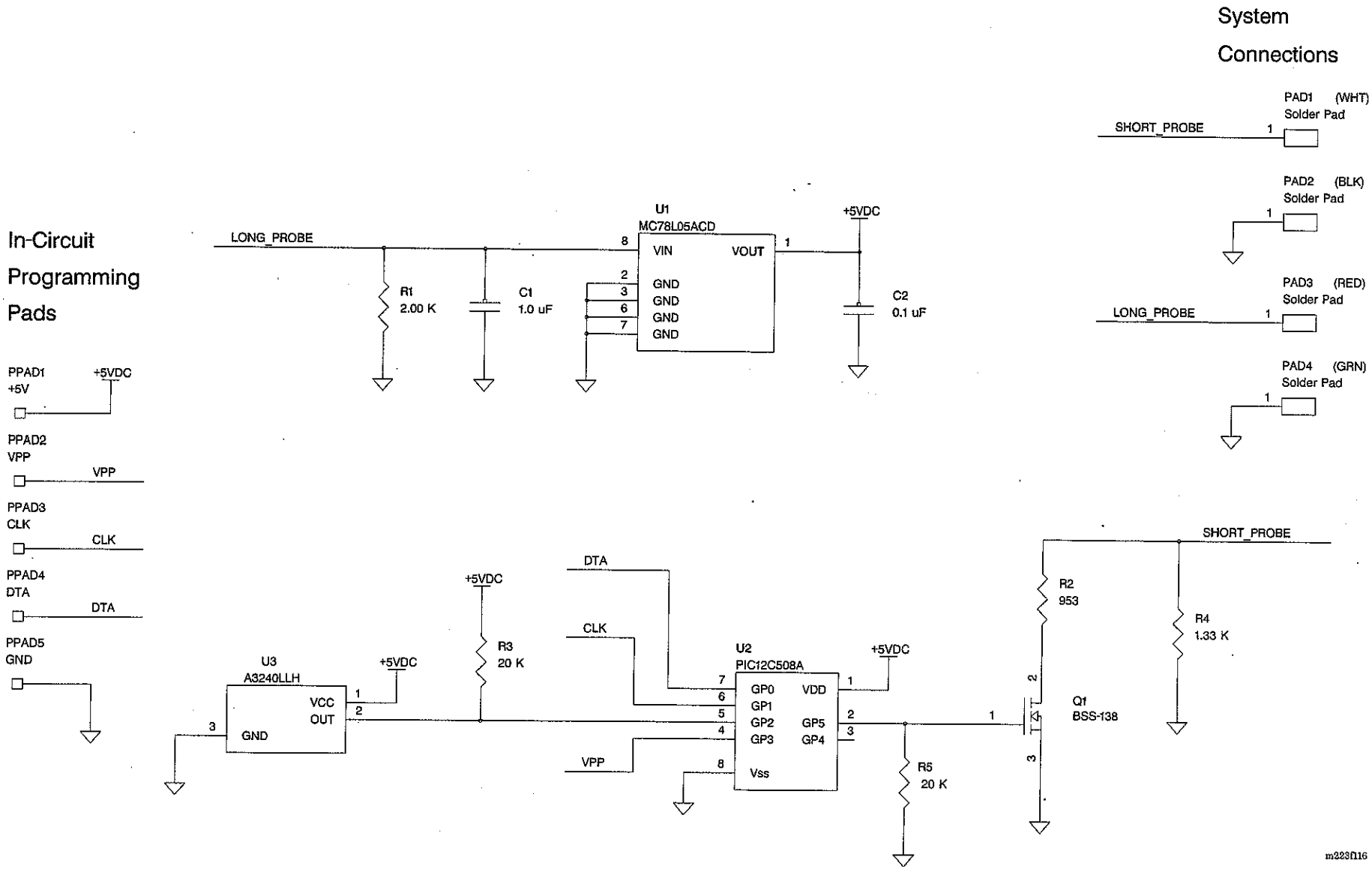
m223f026

FO 3-5.4

Scale P.C. Board Schematic Diagram



Impeller Movement Detector P.C. Board Schematic Diagram



FO 3-7